

	"4d"		"4b"		UNMODIFIED					
	NO POL. ACTIVITY		2 PT. MUTATION SMALL ACTIVITY		DNAP Taq					
1	-	+	2	-	+	3	5	6	7	8
							dNTP			

84 NUC. —

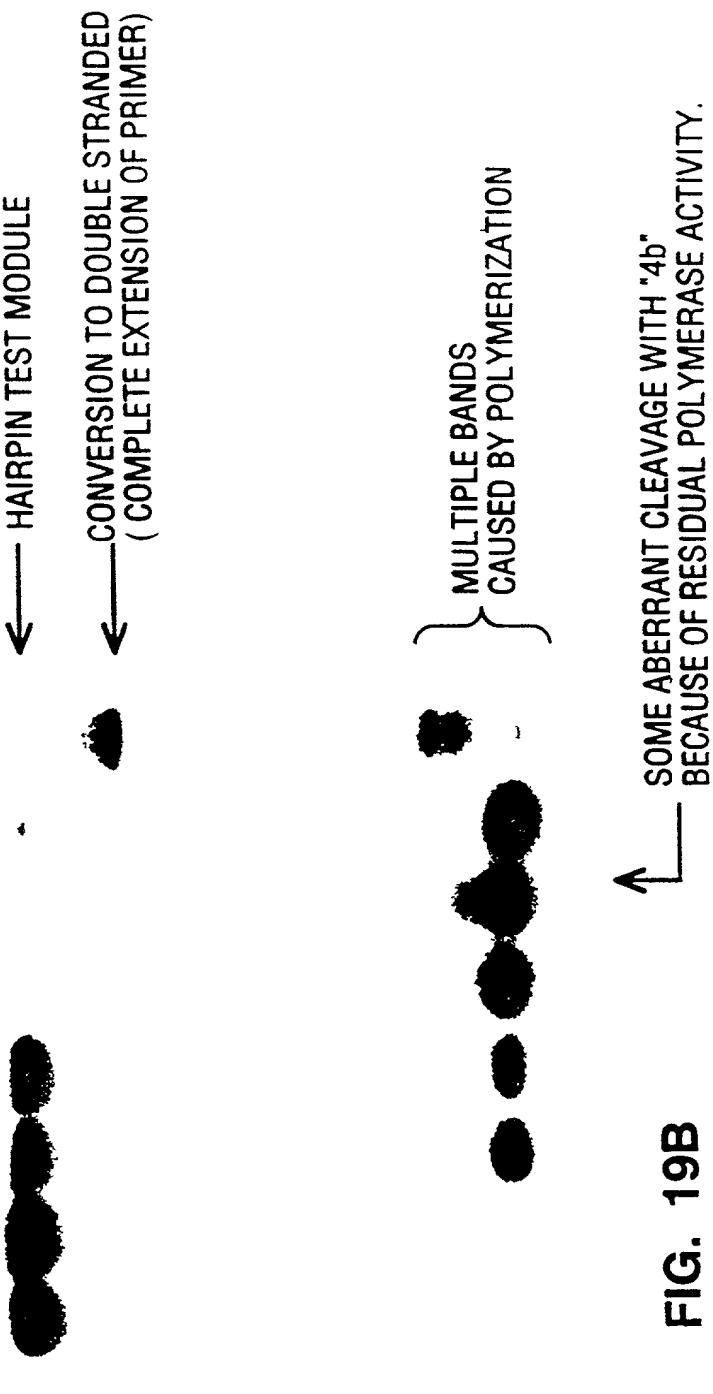


FIG. 19B

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A-Hairpin	Predicted cleavage site	T-Hairpin	Predicted cleavage site
5' CGGACGAAACAAGCGAGACAGCGACACAG 3'	GTACC CATGG T A	5' GTTTCTGCTGCTGCTCTCTTGCCTT 3'	GTACC CATGG T G
<u>5' Tau primer</u>	<u>3'</u>	<u>5' Alpha primer</u>	<u>3'</u>

FIG. 20A

Sequence of alpha primer:
5' GACGAACAAGCGAGACAGCG 3'

FIG. 20B

5' GTTCTGCTGTGCTCTTGCCTCTGGTACCATGGTACCTGGCTGTCTCGCTTGGTACAGCGACACGGAGAACATGGACACAGCAGAACGACACAGCAGAGAGA 3'

5' ACACAG GTACC A C
3' CAAAGACACAGCAGAGAGAACGGAGAA

5' Tau primer 3'
3' CAAAGACACAGCAGAGAGAACGGAGAA

5' Alpha primer 3'
3' CTGCTTGGTTGCTCTTCGCTGTC

Cleaved A-Hairpin

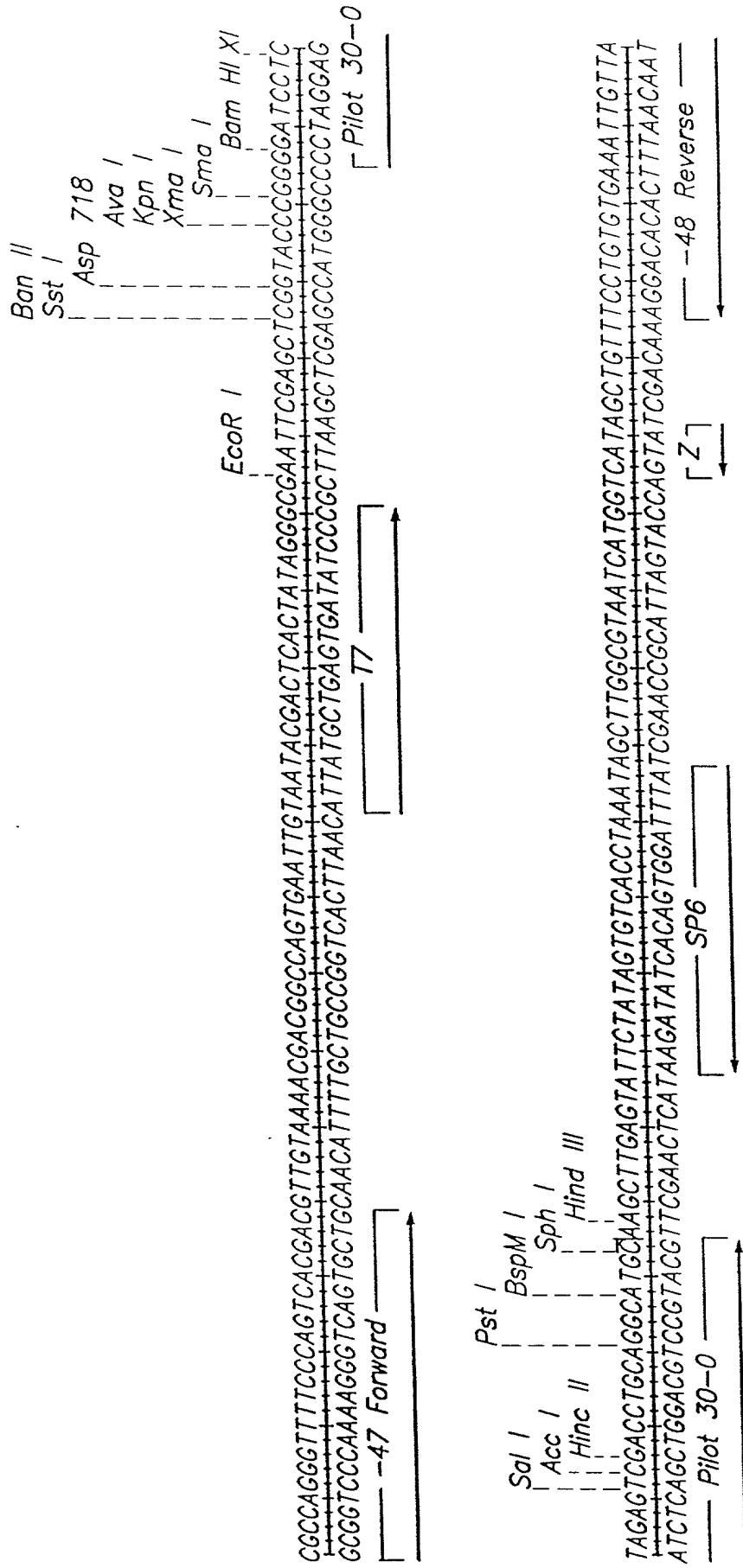
Cleaved T-Hairpin

FIG. 20C

FIG. 20D

FIG. 20D

Y G G T G T a A G G A G G G G



TCCGCTCACAAATTCCACACAAACATACGA 228
 AGGCCAGTGTAAAGGTGTGTTGATGCT
 -48 Reverse
 - 206

FIG. 21